



The Commonwealth of Massachusetts  
Executive Office of Health and Human Services  
Department of Public Health  
William A. Hinton State Laboratory Institute  
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK  
GOVERNOR

TIMOTHY P. MURRAY  
LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD  
SECRETARY

JOHN AUERBACH  
COMMISSIONER

09/23/2011

Spencer Lord  
Assistant District Attorney, Suffolk County

Dear ADA Lord,

Enclosed is the information you requested in regards to Commonwealth vs. [REDACTED]  
Included are copies of the following:

1. Curriculum Vitae for Annie Dookhan and Lisa Glazer.
2. Drug Analysis Laboratory Receipt.
3. Control Cards with analytical results for samples # [REDACTED]
4. Analysis sheets with custodial chemist's hand notations and test results.
5. GC/Mass Spectral analytical data for samples.

Annie Dookhan was the custodial chemist and performed the preliminary testing and net weight for this sample. Lisa Glazer was the confirmatory chemist and analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely,

A handwritten signature in black ink, appearing to be 'Annie Dookhan'.

Annie Dookhan  
Chemist II  
Drug Analysis Lab  
Jamaica Plain, MA. 02130  
(617) 983-6622

## Curriculum Vitae

**Annie Khan (Dookhan)**

### Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry.

University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

### Experience:

2003 – present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

\*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.

\*Appointed Assistant Analyst by Assistant Commissioner of Public Health, 2004.

\*Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.

\*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.

\*Maintenance and repairs of all analytical instruments.

\*Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.

\*Oversee the Quality Control/Quality Assurance program for the Drug Lab.

\*Writing, revising and reviewing Standard Operating Procedures (SOPs) and Protocols.

\*Notary Public.

\*Qualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 – 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

\*Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department.

\*Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.

\*Writing, revising and reviewing Standard Operating Procedures (SOPs).

\*Trained and supervised new chemists and interns for the department.

\*Routine QC testing of products for the FDA.

\*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.

\*Calibration, preventive maintenance, QC and QA of analytical instrumentation.

\*Complete testing of chemicals for Vendor Validation Project for the FDA.

\*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

### Additional Training:

Dept. of Justice – Forensics Professionals. (numerous trainings)

GLP/GMP training with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS trainings with Agilent Technologies and Restek.

HPLC and LC/MS/MS trainings with Waters Cooperation.

FTIR training with Spectros.

TOC training with MBL and Sievers.

### Association:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

## Curriculum Vitae

Lisa A. Glazer

### Education

Bachelor of Science Degree, CHEMISTRY January 2006

UNIVERSITY OF NEW HAVEN

Coursework included: Organic Chemistry, Inorganic Chemistry, Quantitative Analysis, Instrumental Analysis, Physical Chemistry, Physics, Calculus

Bachelor of Science Degree, FORENSIC SCIENCE January 2006

UNIVERSITY OF NEW HAVEN

Coursework included: Organic Chemistry, Quantitative Analysis, Instrumental Analysis, Physical Chemistry, Physics, Calculus, Biology, Criminal Justice and Forensic Science courses

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### Employment

Chemist I, II State Laboratory Institute (May 2007-Present)

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation for the purpose of performing forensic drug analysis
- Successfully completed an eight week training course in the analysis of drugs conducted by senior staff of the Department of Public Health, Drug Analysis Laboratory
- Appointed an assistant analyst for the Department of Public Health, Drug Analysis Laboratory in 2007.

Laboratory Technician I (August 2006 – May 2007)

University of Connecticut Chemistry Department - Storrs, CT

- Prepared unknowns, chemical reagents and supplies for undergraduate chemistry courses
- Set-up experiment demonstrations
- Properly disposed of hazardous waste from the experiments
- Made sure labs were being conducted safely
- Kept track of student laboratory paperwork, inventoried glassware and chemicals and helped clean glassware

Intern (September 2005 – November 2005)

CONNECTICUT STATE POLICE FORENSIC LABORATORY - Meriden, CT

- Worked on a Pyrolysis Gas Chromatography project
- Observed in the GSR testing, Forensic Biology, DNA, Questioned Documents, Black and White Photo, Latent Prints, Firearms, Trace Evidence and Color Photo Units

**DRUG RECEIPT**CC # [REDACTED]  
BOOK # 64  
PAGE # 97  
DESTRUCTION # \_\_\_\_\_District/Unit A-1/SCU  
Name & Rank of Arresting Officer S/O Wm DWAN ID# 10060

DEFENDANT'S NAME

ADDRESS

CITY

STATE

MADORCHMA**LAB USE ONLY**

DESCRIPTION OF ITEMS SUBMITTED

GROSS  
QUANTITYGROSS  
WEIGHTANALYSIS  
NUMBERCRACK COCAINE6 p/b's5.47gMARIJUANA2 p/b's5.22gMARIJUANALOOSE HERB3.45gMARIJUANA2 p/b's8.36g**To be completed by ECU personnel only**Name and Rank of Submitting Officer [Signature] ID# 9370Received by [Signature] Date 4-6-11

ECU Control # \_\_\_\_\_

No. [REDACTED] Date Analyzed: 6/10/11  
City: Boston D.C.U. Police Dept.  
Officer: P.O. Diana Lopez  
Def: [REDACTED]  
Amount: Subst: SUB  
No. Cont: 6 Cont: pb  
Date Rec'd: 04/06/2011 No. Analyzed: 1  
Gross Wt.: 5.47 Net Weight: 0.17  
# Tests: 6 ASD  
• 2 ASD

Prelim: Cocaine @ Findings: Cocaine

No. [REDACTED] Date Analyzed: 06-15-11  
City: Boston D.C.U. Police Dept.  
Officer: P.O. Diana Lopez  
Def: [REDACTED]  
Amount: Subst: VM  
No. Cont: 2 Cont: pb  
Date Rec'd: 04/06/2011 No. Analyzed: 1  
Gross Wt.: 5.22 Net Weight:  
# Tests: 3 ASD  
mua @ mua @  
dua @

Prelim: Findings: marijuana

No. [REDACTED] Date Analyzed: 06-15-11  
City: Boston D.C.U. Police Dept.  
Officer: P.O. Diana Lopez  
Def: [REDACTED]  
Amount: Subst: VM  
No. Cont: 1 Cont: pb  
Date Rec'd: 04/06/2011 No. Analyzed:  
Gross Wt.: 3.45 Net Weight:  
# Tests: 3 ASD  
mua @ mua @  
dua @

Prelim: Findings: marijuana

No. [REDACTED] Date Analyzed: 06-15-11  
City: Boston D.C.U. Police Dept.  
Officer: P.O. Diana Lopez  
Def: [REDACTED]  
Amount: Subst: VM  
No. Cont: 2 Cont: pb  
Date Rec'd: 04/06/2011 No. Analyzed: 1  
Gross Wt.: 8.31 Net Weight:  
# Tests: 3 ASD  
mua @ mua @  
dua @

Prelim:

Findings:

marijuana

$$\text{gross wt 2pb} = 4.6$$

$$\text{gross wt 1pb} = 2.4$$

GC/MS ⊕  
GC/MS 911.5

$$\text{gross wt 2pb} = 1.41$$

$$\text{gross wt 1pb} = 0.8$$

$$\text{net wt} = 0.1$$

## DRUG POWDER ANALYSIS FORM

SAMPLE # \_\_\_\_\_ AGENCY Boston ANALYST AJN

No. of samples tested: \_\_\_\_\_

Evidence Wt. \_\_\_\_\_

PHYSICAL DESCRIPTION:

Gross Wt ( 6 ): 1.3853

Off white chunky sustane  
in 6 pbs

Gross Wt ( 1 ): 0.2300

Pkg. Wt: \_\_\_\_\_

Net Wt: 0.1763

## PRELIMINARY TESTS

## Spot Tests

Cobalt  
Thiocyanate (-) +

Marquis —

Froehde's

Mecke's

### Microcrystalline Tests

Gold  
Chloride  $\rightarrow$

TLTA ( - ) +

## OTHER TESTS

### PRELIMINARY TEST RESULTS

RESULTS cocaine

DATE 6-8-11

GC/MS CONFIRMATORY TEST

RESULTS cocaine

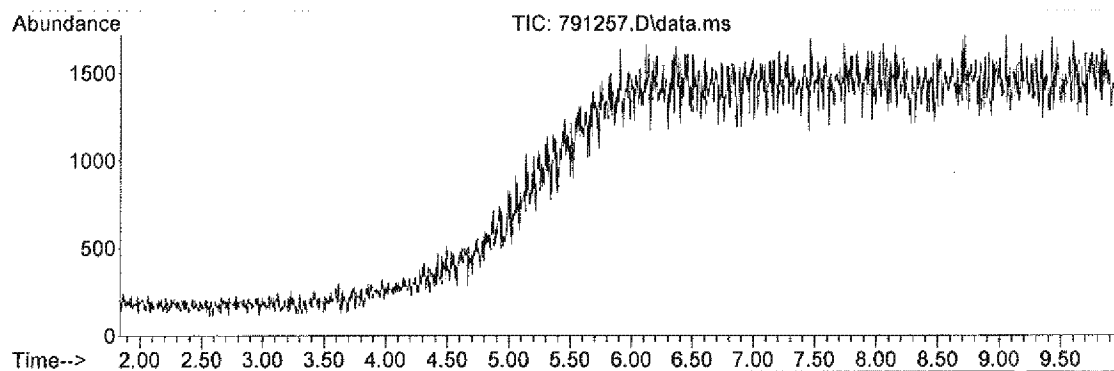
MS  
OPERATOR      LAG

DATE 6-10-11

✓ P.P. 20 OK  
9-21-11

## Information from Data File:

File Name : C:\msdchem\1\System7\06\_09\_11\791257.D  
Operator : ASD  
Date Acquired : 9 Jun 2011 20:56  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 2  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

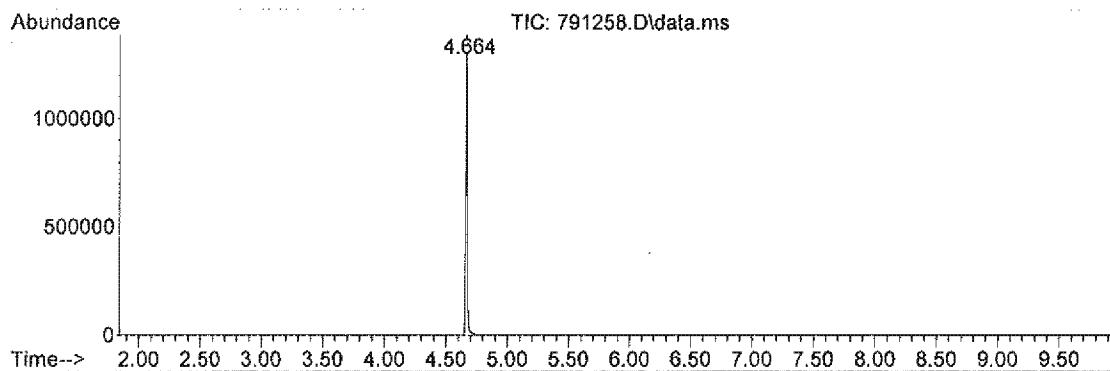


| Ret. Time | Area | Area % | Ratio % |
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|-----------|------|--------|---------|

\*\*\*NO INTEGRATED PEAKS\*\*\*

## Information from Data File:

File Name : C:\msdchem\1\System7\06\_09\_11\791258.D  
Operator : ASD  
Date Acquired : 9 Jun 2011 21:09  
Sample Name : COCAINE STD  
Submitted by : ASD  
Vial Number : 58  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



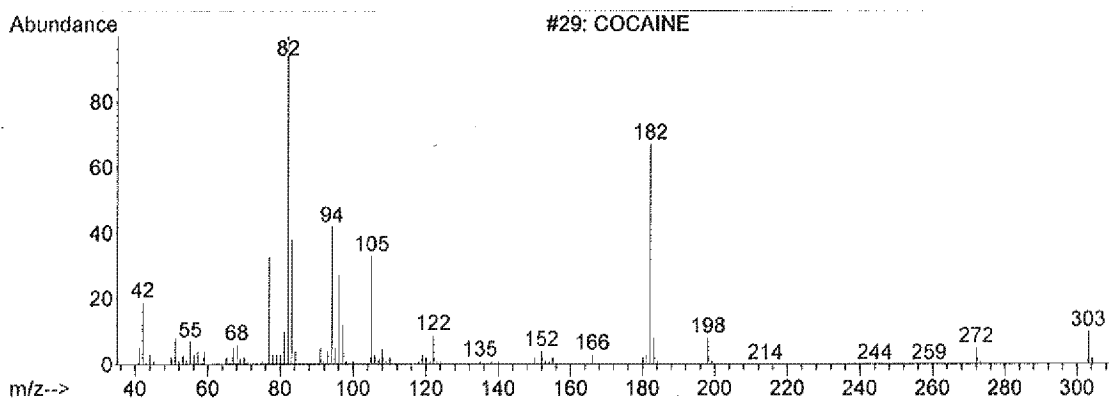
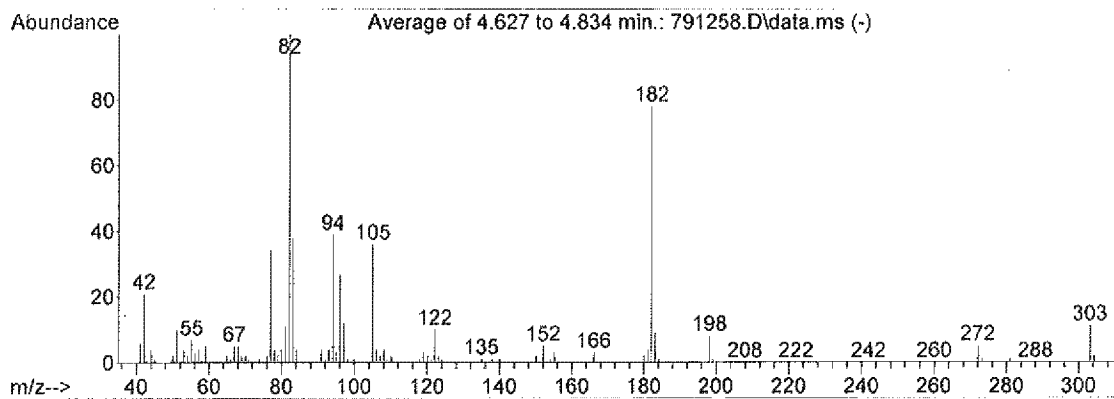
| Ret. Time | Area    | Area % | Ratio % |
|-----------|---------|--------|---------|
| 4.664     | 1216770 | 100.00 | 100.00  |

## Information from Data File:

File Name : C:\msdchem\1\System7\06\_09\_11\791258.D  
Operator : ASD  
Date Acquired : 9 Jun 2011 21:09  
Sample Name : COCAINE STD  
Submitted by : ASD  
Vial Number : 58  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

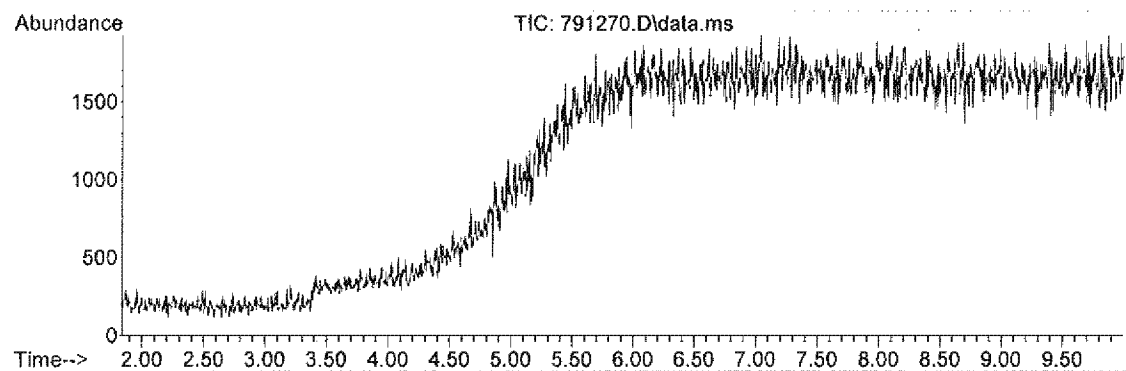
Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID                   | CAS#        | Qual |
|-----|------|------------------------------|-------------|------|
| 1   | 4.66 | C:\Database\SLI.L<br>COCAINE | 000050-36-2 | 99   |



## Information from Data File:

File Name : C:\msdchem\1\System7\06\_09\_11\791270.D  
Operator : ASD  
Date Acquired : 9 Jun 2011 23:41  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 2  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

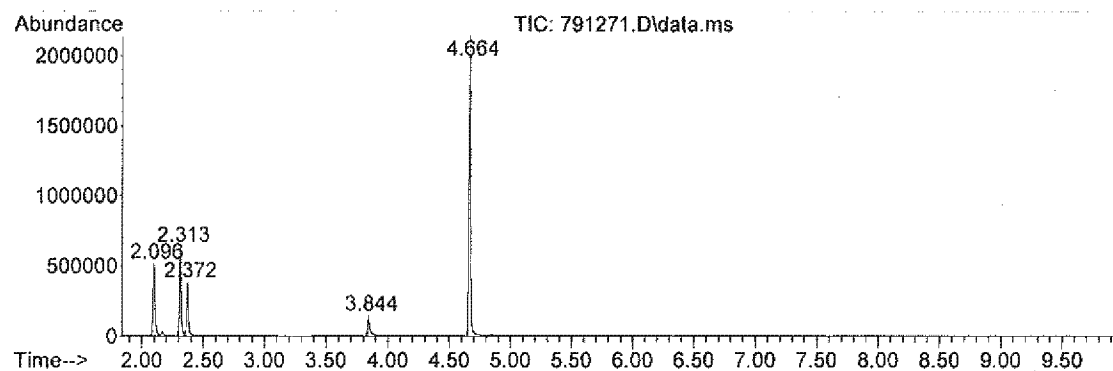


| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

\*\*\*NO INTEGRATED PEAKS\*\*\*

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File Name : C:\msdchem\1\System7\06\_09\_11\791271.D  
Operator : ASD  
Date Acquired : 9 Jun 2011 23:54  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 71  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



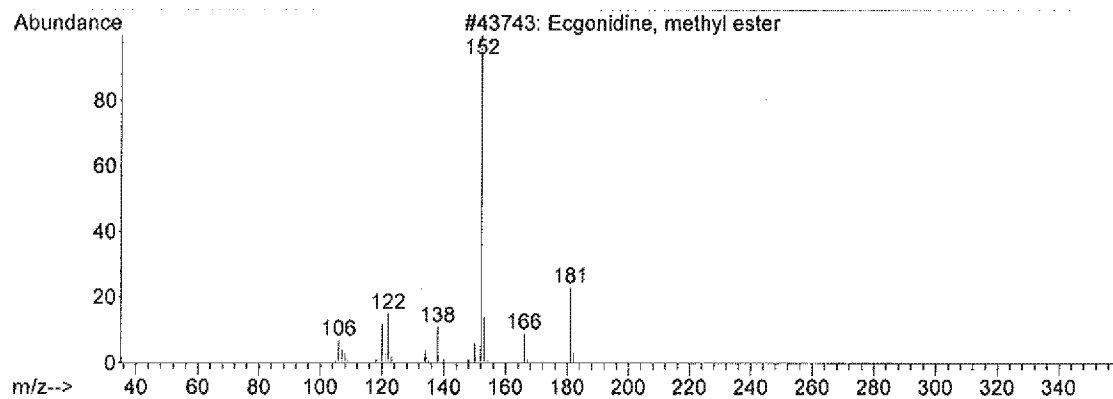
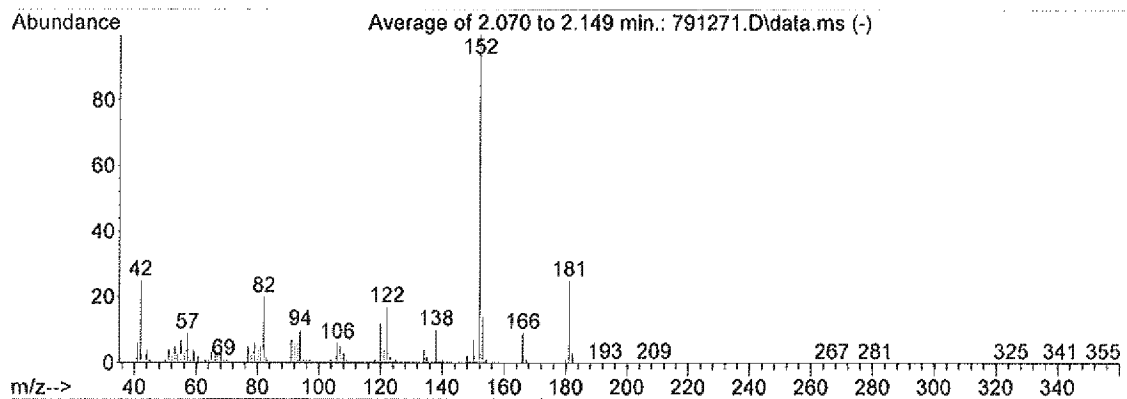
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| 2.096     | 635183  | 16.25  | 30.79   |
| 2.313     | 604112  | 15.46  | 29.28   |
| 2.372     | 401559  | 10.27  | 19.46   |
| 3.844     | 204486  | 5.23   | 9.91    |
| 4.664     | 2063222 | 52.79  | 100.00  |

## Information from Data File:

File Name : C:\msdchem\1\System7\06\_09\_11\791271.D  
Operator : ASD  
Date Acquired : 9 Jun 2011 23:54  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 71  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID                          | CAS#        | Qual |
|-----|------|-------------------------------------|-------------|------|
| 1   | 2.10 | C:\Database\NIST05a.L               |             |      |
|     |      | Ecgonidine, methyl ester            | 127379-24-2 | 98   |
|     |      | 2-Carbomethoxy-8-methyl-8-azabicycl | 043021-26-7 | 96   |
|     |      | 3,5-Dimethoxyphenethylamine         | 003213-28-3 | 43   |

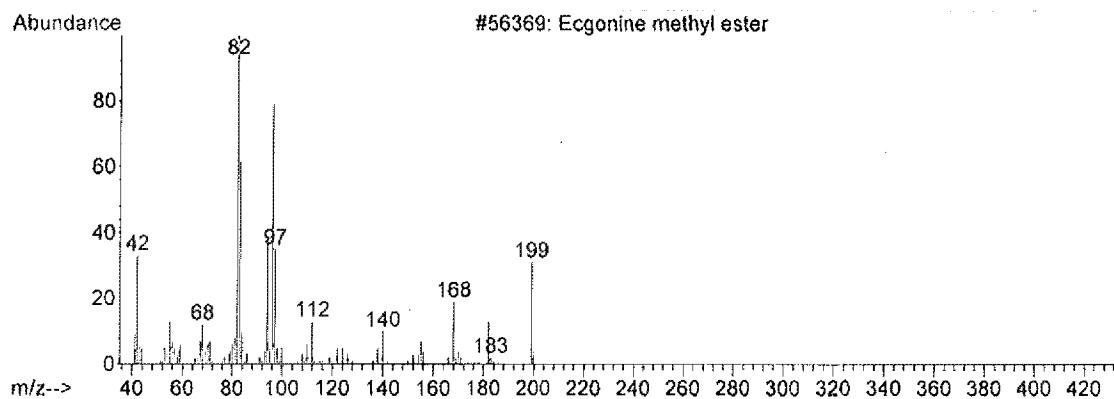
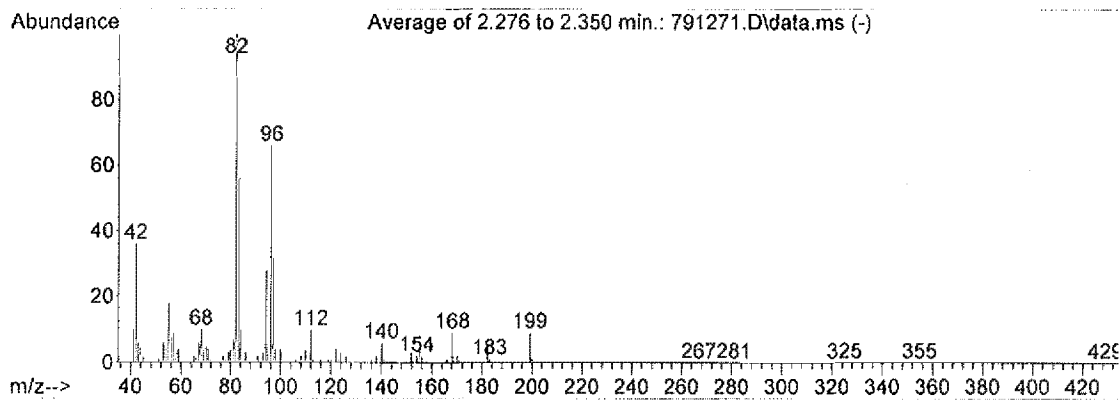


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File Name : C:\msdchem\1\System7\06\_09\_11\791271.D  
Operator : ASD  
Date Acquired : 9 Jun 2011 23:54  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 71  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID            | CAS#        | Qual |
|-----|------|-----------------------|-------------|------|
| 2   | 2.31 | C:\Database\NIST05a.L |             |      |
|     |      | Ecgonine methyl ester | 106293-60-1 | 98   |
|     |      | Ecgonine methyl ester | 106293-60-1 | 97   |
|     |      | Ecgonine methyl ester | 106293-60-1 | 97   |

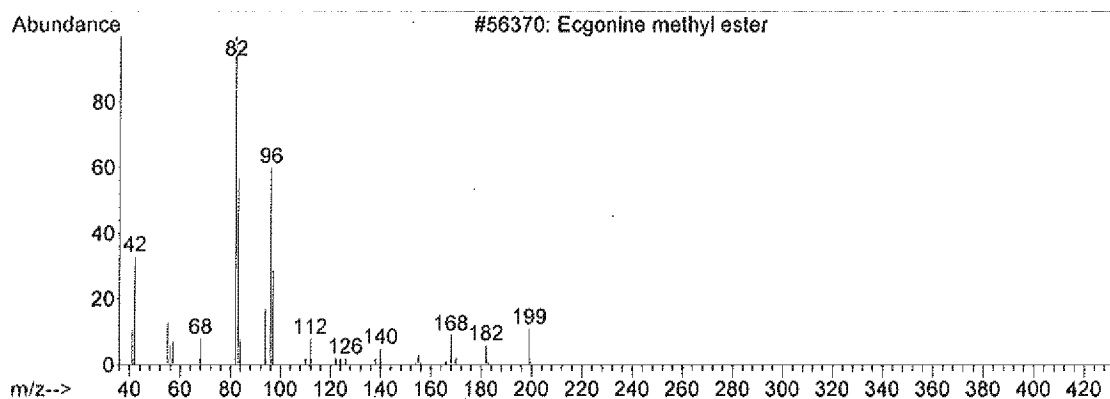
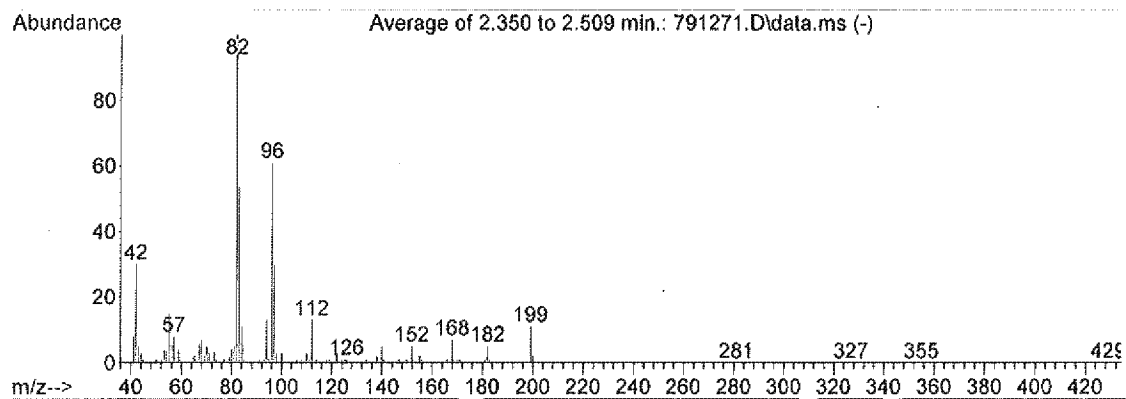


## Information from Data File:

File Name : C:\msdchem\1\System7\06\_09\_11\791271.D  
Operator : ASD  
Date Acquired : 9 Jun 2011 23:54  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 71  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID                  | CAS#        | Qual |
|-----|------|-----------------------------|-------------|------|
| 3   | 2.37 | C:\Database\NIST05a.L       |             |      |
|     |      | Ecgonine methyl ester       | 106293-60-1 | 98   |
|     |      | Pseudoecgonine methyl ester | 099189-88-5 | 94   |
|     |      | Ecgonine methyl ester       | 106293-60-1 | 81   |

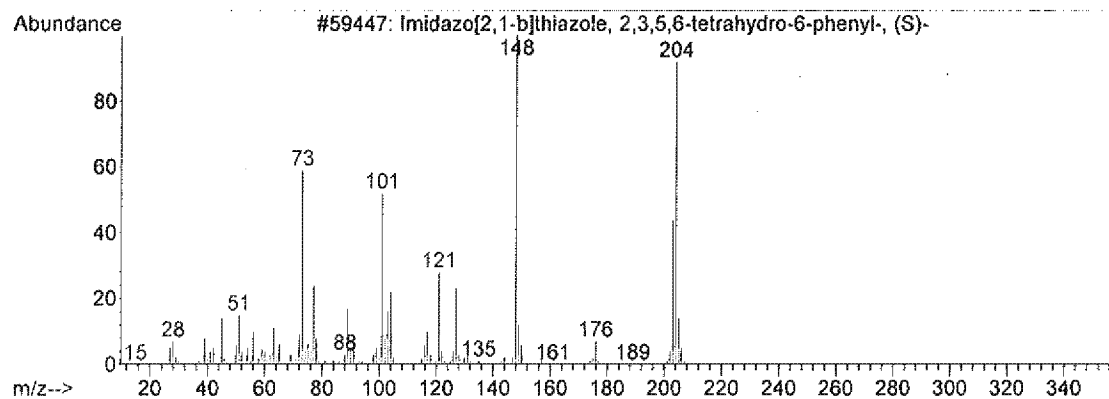
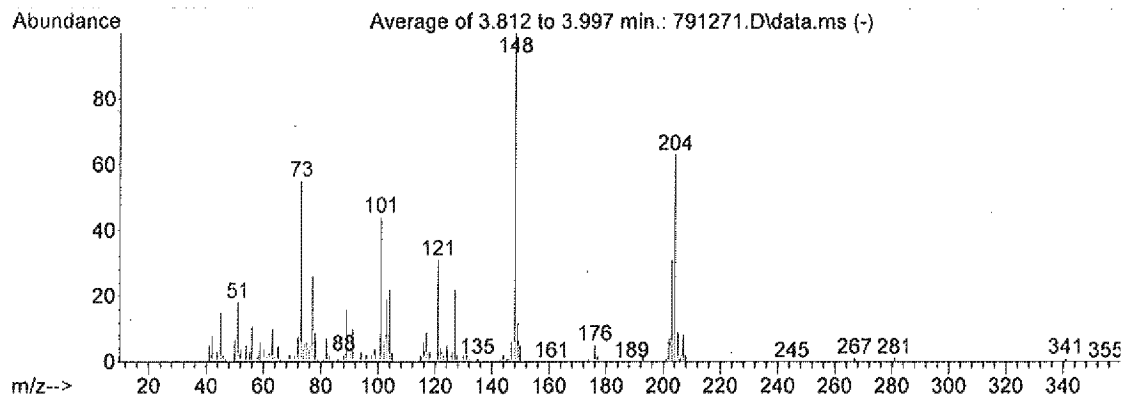


## Information from Data File:

File Name : C:\msdchem\1\System7\06\_09\_11\791271.D  
Operator : ASD  
Date Acquired : 9 Jun 2011 23:54  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 71  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID                          | CAS#        | Qual |
|-----|------|-------------------------------------|-------------|------|
| 4   | 3.84 | C:\Database\NIST05a.L               |             |      |
|     |      | Imidazo[2,1-b]thiazole, 2,3,5,6-tet | 014769-73-4 | 98   |
|     |      | Imidazo[2,1-b]thiazole, 2,3,5,6-tet | 006649-23-6 | 98   |
|     |      | Imidazo[2,1-b]thiazole, 2,3,5,6-tet | 006649-23-6 | 97   |

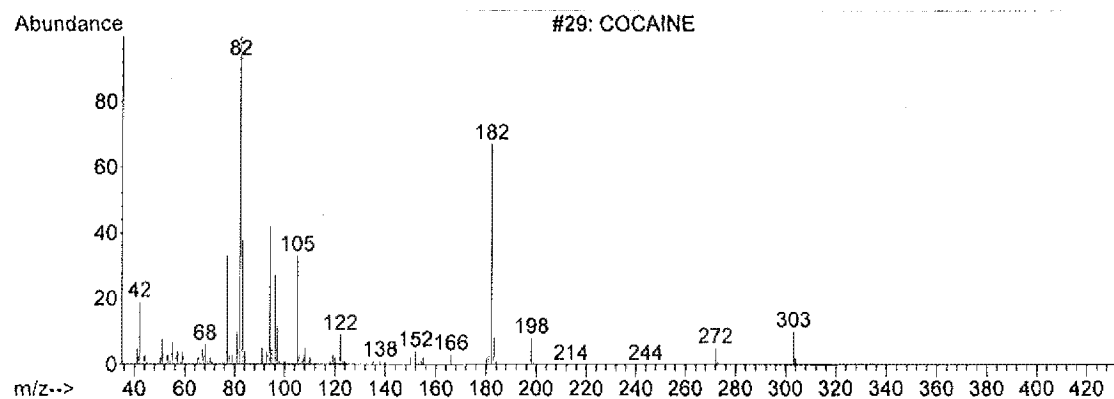
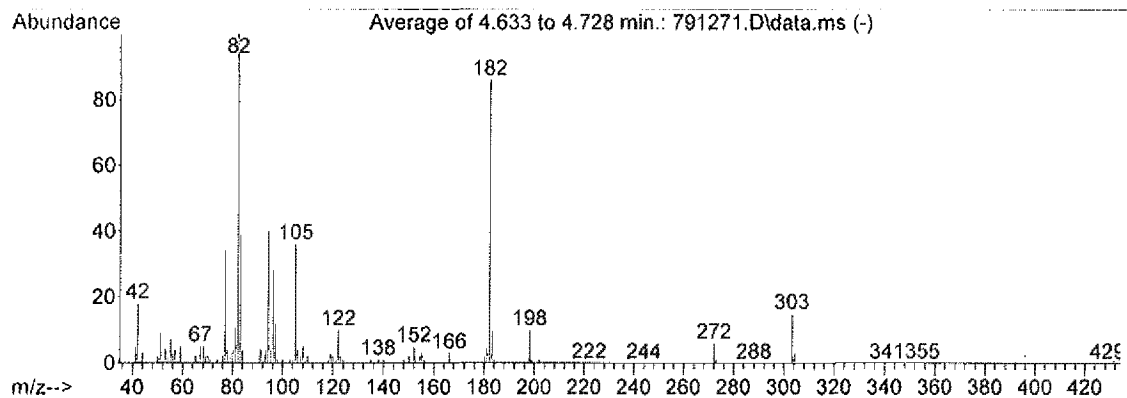


## Information from Data File:

File Name : C:\msdchem\1\System7\06\_09\_11\791271.D  
Operator : ASD  
Date Acquired : 9 Jun 2011 23:54  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 71  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

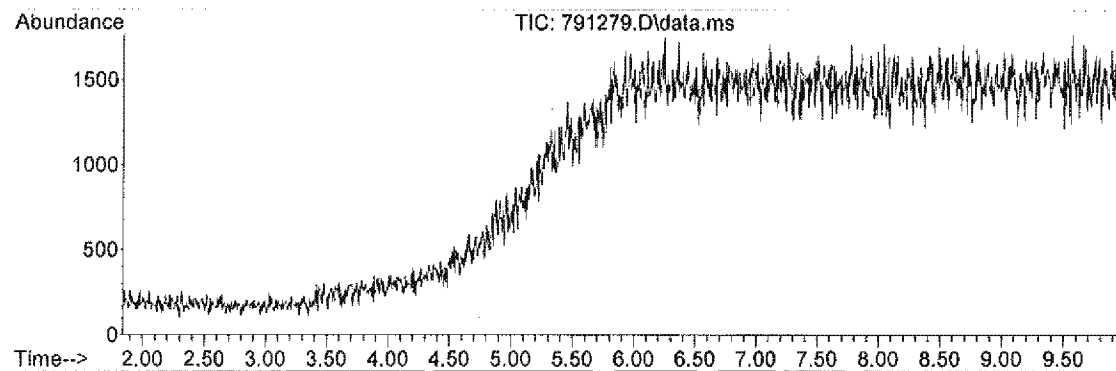
Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID                   | CAS#        | Qual |
|-----|------|------------------------------|-------------|------|
| 5   | 4.66 | C:\Database\SLI.L<br>COCAINE | 000050-36-2 | 99   |



## Information from Data File:

File Name : C:\msdchem\1\System7\06\_09\_11\791279.D  
Operator : ASD  
Date Acquired : 10 Jun 2011 1:35  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 2  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

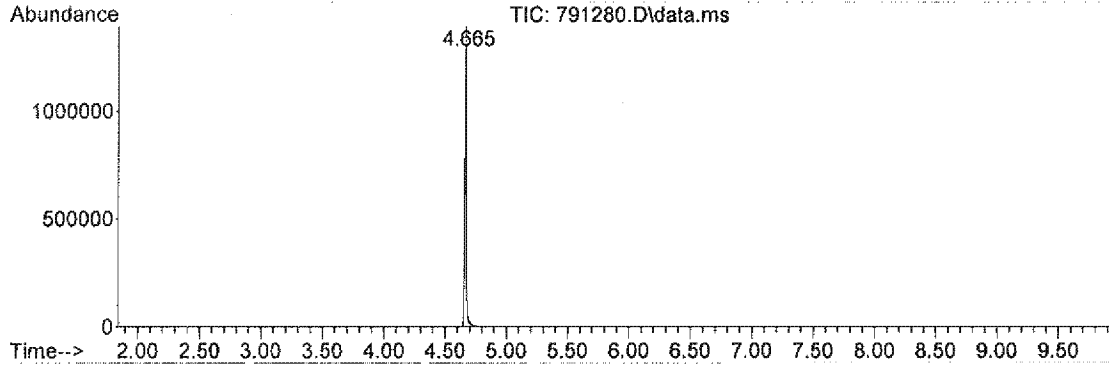


| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

\*\*\*NO INTEGRATED PEAKS\*\*\*

Information from Data File:

File Name : C:\msdchem\1\System7\06\_09\_11\791280.D  
 Operator : ASD  
 Date Acquired : 10 Jun 2011 1:48  
 Sample Name : COCAINE STD  
 Submitted by : ASD  
 Vial Number : 58  
 AcquisitionMeth: DRUGS.M  
 Integrator : RTE



| Ret. Time | Area    | Area % | Ratio % |
|-----------|---------|--------|---------|
| 4.665     | 1233319 | 100.00 | 100.00  |

## Information from Data File:

File Name : C:\msdchem\1\System7\06\_09\_11\791280.D  
Operator : ASD  
Date Acquired : 10 Jun 2011 1:48  
Sample Name : COCAINE STD  
Submitted by : ASD  
Vial Number : 58  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID                   | CAS#        | Qual |
|-----|------|------------------------------|-------------|------|
| 1   | 4.66 | C:\Database\SLI.L<br>COCAINE | 000050-36-2 | 99   |

